(54) **Title:** APPARATUS AND METHOD FOR DIGITAL CODING OF SOUND
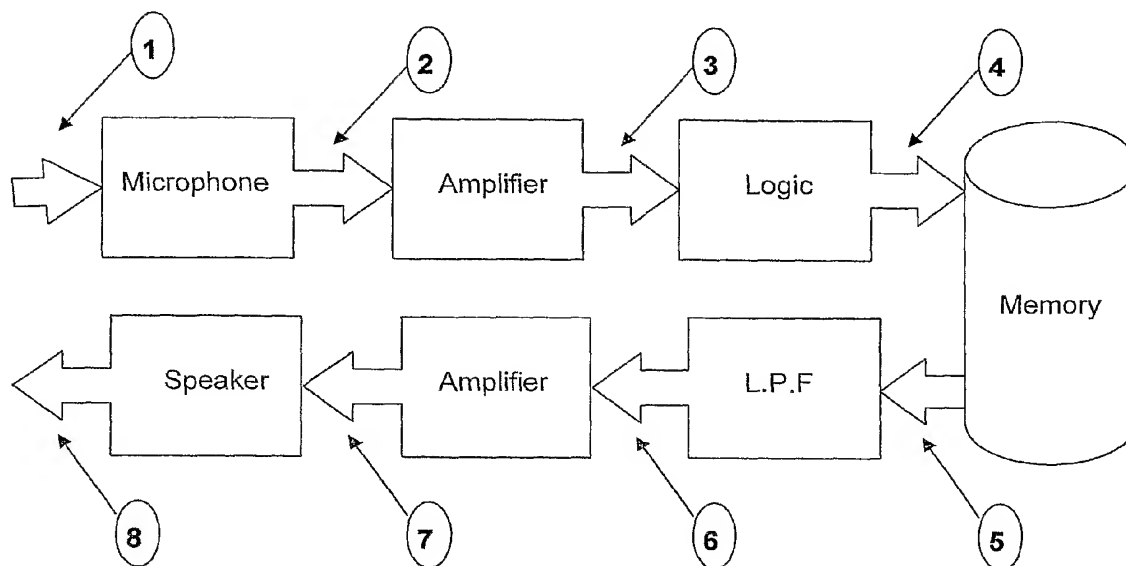
(57) **Abstract:** The present invention discloses a method and a system for converting vocal sounds into digital data format. This technique will significantly decrease the amount of memory needed to store the digital data of the recorded voice. The system is comprised of a microphone converting the vocal sound signals into electrical signal, amplifying and filtering module for analyzing the electrical signals, a comparator module for comparing the analog signal to pre-defined value and sampling by clock edge module for representing the output signal of the comparator as a digital data format, a memory module for storing said digital data, a filtering module for reducing the alternating the analog signal higher harmonics, an amplifying module increasing the filtered signals amplitude and transducer module for converting the electrical amplifying signals into vocal sound signal.

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